



ELECTRONIC INFORMATION DISCLOSURE STATEMENT

Electronic Version v18

Stylesheet Version v18.0

Title of Invention

IN SITU THERMAL PROCESSING OF A COAL FORMATION WITH A
SELECTED RATIO OF HEAT SOURCES TO PRODUCTION WELLS

Application Number: 09/841061

Confirmation Number: 4091

First Named Applicant: Ilya Berchenko

Attorney Docket Number: 5659-06300

Art Unit: 3673

Examiner: John J. Kreck

Search string: (3986556 or 4031956 or 4140180 or 4412585 or 4501326 or 4524827 or 4585066
or 4776638 or 4856587 or 5517593 or 5099918 or 5751895 or 6015015 or
6112808).pn.

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US Patent Documents

Note: Applicant is not required to submit a paper copy of cited US Patent Documents

init	Cite.No.	Patent No.	Date	Patentee	Kind	Class	Subclass
<input checked="" type="checkbox"/>	1	3986556	1976-10-19	Haynes			
<input checked="" type="checkbox"/>	2	4031956	1977-06-28	Terry			
<input checked="" type="checkbox"/>	3	4140180	1979-02-20	Bridges et al.			
<input checked="" type="checkbox"/>	4	4412585	1983-11-01	Bouck			
<input checked="" type="checkbox"/>	5	4501326	1985-02-26	Edmunds			
<input checked="" type="checkbox"/>	6	4524827	1985-06-25	Bridges et al.			
<input checked="" type="checkbox"/>	7	4585066	1986-04-29	Moore et al.			
<input checked="" type="checkbox"/>	8	4776638	1988-10-11	Hahn			
<input checked="" type="checkbox"/>	9	4856587	1989-08-15	Nielson			
<input checked="" type="checkbox"/>	10	5517593	1996-05-14	Nenniger et al.			
<input checked="" type="checkbox"/>	11	5099918	1992-03-31	Bridges et al.			
<input checked="" type="checkbox"/>	12	5751895	1998-05-12	Bridges			
<input checked="" type="checkbox"/>	13	6015015	2000-01-18	Luft et al.			
<input checked="" type="checkbox"/>	14	6112808	2000-09-05	Isted			

Signature

	Examiner Name	Date
		11/24/03



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Application Number: 09/841061
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Attorney Docket Number: 5659-06300
Art Unit: 3673
Examiner: John J. Kreck
Search string: (3477058 or 3580987 or 4193451 or 4265307
or 4390067 or 4456065 or 4457374 or 4479541
or 4498535 or 4598770 or 4669542 or 4682652
or 4982786 or 5201219 or 5339904 or 3348745
or 1646599 or 3952802 or 4010800 or
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US Patent Documents

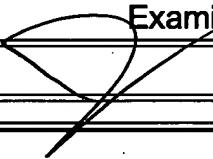
Note: Applicant is not required to submit a paper copy of cited US Patent Documents

init	Cite.No.	Patent No.	Date	Patentee	Kind	Class	Subclass
<input checked="" type="checkbox"/>	1	3477058	1968-11-04	Vedder et al.			
<input type="checkbox"/>	2	3580987	1971-05-25	Priaroggia			
<input type="checkbox"/>	3	4193451	1980-03-18	Dauphine			
<input type="checkbox"/>	4	4265307	1981-05-05	Elkins			
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<input type="checkbox"/>	6	4456065	1984-06-26	Heim et al.			
<input type="checkbox"/>	7	4457374	1984-07-03	Hoekstra et al.			
<input type="checkbox"/>	8	4479541	1984-10-30	Wang			
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<input type="checkbox"/>	10	4598770	1986-07-08	Shu et al.			
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<input type="checkbox"/>	12	4682652	1987-07-28	Huang et al.			
<input checked="" type="checkbox"/>	13	4982786	1991-01-08	Jennings, Jr.			

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<input checked="" type="checkbox"/>	14	5201219	1993-04-13	Bandurski et al.
<input type="checkbox"/>	15	5339904	1994-08-23	Jennings, Jr.
<input type="checkbox"/>	16	3348745	1967-10-31	Holbert et al.
<input type="checkbox"/>	17	1646599	1927-10-25	Schaefer
<input type="checkbox"/>	18	3952802	1976-04-27	Terry
<input type="checkbox"/>	19	4010800	1977-03-08	Terry
<input checked="" type="checkbox"/>	20	3892270	1975-07-01	Lindquist

Signature

	Examiner Name	Date
		11/24/03

Form PTO-1449 (modified)
List of Patents and Publications
For Applicant's Information
Disclosure Statement
(Use several sheets if necessary)

ATTY. DKT. NO. 5659-06300

SERIAL NO. 09/841,061

APPLICANT: Berchenko et al.

Art Unit: 3673

FILING DATE: April 24, 2001

SEP 08 2003

FOREIGN PATENT DOCUMENTS

EXAM. INITIALS	REF. DES.	DOCUMENT NUMBER	DATE	COUNTRY	CLASS	SUB CLASS	TRANSLATION YES/NO
	T01	1836876	12/30/1994	SU			Y

OTHER ART (Including Author, Title, Date, Pertinent Pages, Etc.)

	T02	Burnham, Alan, K. "Oil Shale Retorting Dependence of timing and composition on temperature and heating rate", January 27, 1995, (23 pages).
	T03	Burnham et al. "A Possible Mechanism of Alkene/Alkane Production in Oil Shale Retorting, (7 pages).
	T04	Campbell, et al., "Kinetics of oil generation from Colorado Oil Shale" IPC Business Press, Fuel, 1978, (3 pages).
	T05	Cummins et al. "Thermal Degradation of Green River Kerogen at 150° to 350 °C", Report of Investigations 7620, U.S. Government Printing Office, 1972, (pages 1-15).
	T06	Cook, et al. "The Composition of Green River Shale Oils", United Nations Symposium on the Development and Utilization of Oil Shale Resources, Tallinn, 1968, (pages 1-23).
	T07	Hill et al., "The Characteristics of a Low Temperature in situ Shale Oil" American Institute of Mining, Metallurgical & Petroleum Engineers, 1967 (pages 75-90)..
	T08	Dinneen, et al. "Developments in Technology for Green River Oil Shale" United Nations Symposium on the Development and Utilization of Oil Shale Resources, Tallinn, 1968, (pages 1-20).
	T09	De Rouffignac, E. "In Situ Resistive Heating of Oil Shale for Oil Production-A Summary of the Swedish Data, (4 pages).
	T10	Dougan, et al. "The Potential for in situ Retorting of Oil Shale in the Piceance Creek Basin of Northwestern Colorado", Quarterly of the Colorado School of Mines (pages 57-72).
	T11	Hill et al. "Direct Production of Low Pour Point High Gravity Shale Oil" I&EC Product Research and Development, 1967, Volume 6, (pages 52-59).
	T12	Yen et al., "Oil Shale" Developments in Petroleum Science, 5, Elsevier Scientific Publishing Co., 1976 (pages 187-198).
	T13	SSAB report, "A Brief Description of the Ljungstrom Method for Shale Oil Production," 1950, (12 pages).
	T14	Salomonsson G., SSAB report, "The Lungstrom In Situ-Method for Shale Oil Recovery, 1950 (28 pages)
	T15	"Swedish shale oil-Production method in Sweden," Organisation for European Economic Co-operation, 1952, (70 pages).
*	T16	SSAB report, "Kvarn Torp" 1958, (36 pages).
*	T17	SSAB report, "Kvarn Torp" 1951 (35 pages).
	T18	SSAB report, "Summary study of the shale oil works at Narkes Kvarntorp" (15 pages).
	T19	Vogel et al. "An Analog Computer for Studying Heat Transfrer during a Thermal Recovery Process," AIME Petroleum Transactions, 1955 (pages 205-212).
*	T20	"SKIFEROLJA GENOM UPPVARMNING AV SKIFFERBERGET," Faxin Department och Nander, 1941, (3 pages)
*	T21	"Aggregeringens orsaker och ransoneringen grunder", Av director E.F.Cederlund i Statens livesmedelskonmmission (1 page).
	T22	Ronnby, E. "KVARNTORP-Sveriges Storsta skifferoljeindustri," 1943, (9 pages)
	T23	SAAB report, "The Swedish Shale Oil Industry," 1948 (8 pages).
	T24	Gejrot et al., "The Shale Oil Industry in Sweden," Carlo Colombo Publishers-Rome, Proceedings of the Fourth World Petroleum Congress, 1955 (8 pages)

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DATE CONSIDERED: 11/24/03

EXAMINER: Initial if citation considered, whether or not citation is in conformance with MPEP 609; Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to the patent owner.

Form PTO-1449 (modified) List of Patents and Publications For Applicant's Information Disclosure Statement (Use several sheets if necessary)		ATTY. DKT. NO. 5659-06300 APPLICANT: Berchenko et al. FILING DATE: April 24, 2001	SERIAL NO. 09/841,061 Art Unit: 3673
OTC	T25	Hedback, T. B., "The Swedish Shale as Raw Material for Production of Power, Oil and Gas," XIth Sectional Meeting World Power Conference, 1957 (9 pages)	
	T26	SAAB, "Santa Cruz, California, Field Test of the Lins Method for the Recovery of Oil from Sand", 1955 Vol. 1, (141 pages) English	
	T27	SAAB, "Santa Cruz, California, Field Test of the Lins Method for the Recovery of Oil from Sand-Figures", 1955 Vol. 2, (146 pages) English.	
	T28	"Santa Cruz, California, Field Test of the Lins Method for the Recovery of Oil from Sand-Memorandum re: tests", 1955 Vol. 3, (256 pages) English.	
	T29	Helander, R.E., "Santa Cruz, California, Field Test of Carbon Steel Burner Casings for the Lins Method of Oil Recovery", 1959 (38 pages) English.	
	T30	Helander et al., Santa Cruz, California, Field Test of Fluidized Bed Burners for the Lins Method of Oil Recovery" 1959, (86 pages) English.	
	T31	SSAB report, "Bradford Residual Oil, Athabasa Ft. McMurray" 1951, (207 pages), partial translation.	
OW	T32	"Lins Burner Test Results-English" 1959-1960	
*	T33	SSAB "Annual Reports, SSAB Laboratory, Address Annually Issues-Shale and Ash, Oil, Gas, Waste Water, Analytical", 1953-1954, (166 pages). Swedish	
	T34	SSAB report, "Financial Matter, Swedish taxes, etc.," 1960-1961 (37 pages)- Swedish	
	T35	SSAB report, "Cost For Mining," 1959-1979 (13 pages). Swedish	
	T36	SSAB report, "Cost Comparison of Mining and Processing of Shale and Dolomite Using Various Production Alternatives", 1960, (64 pages). Swedish	
	T37	SSAB report, "Assessment of Future Mining Alternatives of Shale and Dolomite," 1962, (59 pages) Swedish.	
*	T38	SSAB report, "Kartong 2 Shale: Ljungströmsanläggningen" (104 pages) Swedish	
JK	T39	SAAB, "Photos", (18 pages).	
*	T40	SAAB report, "Swedish Geological Survey Report, Plan to Delineate Oil shale Resource in Narkes Area (near Kvarntorp)," 1941 (13 pages). Swedish.	
	T41	SAAB report, "Recovery Efficiency," 1941, (61 pages). Swedish.	
	T42	SAAB report, "Geologic Work Conducted to Assess Possibility of Expanding Shale Mining Area in Kvarntorp; Drilling Results, Seismic Results," 1942 (79 pages). Swedish.	
	T43	SSAB report, "Ojematinigar vid Norrtorp," 1943 (141 pages).	
	T44	SSAB report, "Inhopplingschema, Norrtorp II 20/3-17/8", 1945 (50 pages). Swedish.	
	T45	SSAB report, "Secondary Recovery after LINS," 1945 (78 pages)	
	T46	SSAB report, "Maps and Diagrams, Geology," 1947 (137 pages). Swedish	
	T47	SSAB report, "Styrehseprotokol," 1943 (10 pages). Swedish.	
	T48	SSAB report, "Early Shale Retorting Trials" 1951-1952, (134 pages). Swedish.	
	T49	SSAB report, "Analysis of Lujunstrom Oil and its Use as Liquid Fuel," Thesis by E. Pals, 1949 (83 pages). Swedish.	
	T50	SSAB report, "Environmental Sulphur and Effect on Vegetation," 1951 (50 pages). Swedish.	
	T51	SSAB report, "Tar Sands", Vol.135 1953 (20 pages, pages 12-15 translated). Swedish.	
*	T52	SSAB report, "Assessment of Skanes Area (Southern Sweden) Shales as Fuel Source," 1954 (54 pages). Swedish.	

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SEP 08 2003 PART OF PAPER # 31			
X	T53	SSAB report, "Prognosis for On-Text Geology Reserves," 1960 (93 pages). Swedish.	
X	T54	SSAB report, "Kvarntorps Environmental Area Assessment," 1981 (50 pages). Swedish.	

* = No translation, not considered.

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